

**CONTENTS OF SOIL & TILLAGE RESEARCH, VOLUME 12****VOL. 12 NO. 1****FEBRUARY 1988**

Effects of deep ripping on chemical and physical properties of a Solonetzic soil in east-central Alberta	
K.M. Riddell, G.R. Webster and J.C. Hermans (Edmonton, Alb., Canada).....	1
Runoff, sediment and nutrient losses from various tillage systems of cotton	
K.H. Yoo, J.T. Touchton and R.H. Walker (Auburn, AL, U.S.A.).....	13
Management of grain stubble for conservation-tillage systems	
D.E. Wilkins, B.L. Klepper and P.E. Rasmussen (Pendleton, OR, U.S.A.) .....	25
Temporal variability of soil macroporosity in a fine sandy loam under mouldboard ploughing and direct drilling	
M.R. Carter (Charlottetown, P.E.I., Canada) .....	37
Fragment size distribution within slots created in a duplex soil by a prototype rotary slotter	
N.S. Jayawardane, J. Blackwell (Griffith, N.S.W., Australia) and P.S. Blackwell (Canberra, A.C.T., Australia) .....	53
Response of maize ( <i>Zea mays</i> L.) and mungbean ( <i>Vigna radiata</i> L.) to tillage in relation to water table depth in tropical lowland rice soils	
P.K. Sharma, S.K. De Datta and C.A. Redulla (Manila, Philippines) .....	65
The effects of different management practices on the physical properties of a sandy loam in Southern Nigeria	
M.E. Obi and P.C. Nnabude (Anambra State, Nigeria) .....	81

**Book Reviews**

Erosion.....	91
Kenyan soils .....	93
Agricultural implements.....	94
Soil science .....	96
Interactions in soil .....	97
<b>Erratum</b> .....	101
<b>Announcement</b> .....	103

**VOL. 12 NO. 2****AUGUST 1988**

Runoff and erosion control with hill farming in the sub-coastal Apennines climate	
G. Chisci and V. Boschi (Palermo, Italy) .....	105
Efficiency of subsoiling and subsurface drainage in heavy alluvial soils of the G.D.R.	
L. Müller (Müncheberg, G.D.R.) .....	121
Soil respiration in conventional and no-tillage agroecosystems under different winter cover crop rotations	
P.F. Hendrix, C.-R. Han and P.M. Groffmann (Athens, GA, U.S.A.) .....	135
Effective use of energy and water in rice-soil puddling	
D.K. Painuli, T. Woodhead (Manila, Philippines) and M. Pagliai (Pisa, Italy) .....	149
Effect of seeding method on alfalfa and red clover establishment and growth, soil physical condition and nematode populations	
H.T. Kunelius, M.R. Carter, J. Kimpinski and J.B. Sanderson (Charlottetown, P.E.I., Canada) .....	163
The effect of soil management on the soil faunal makeup of a cropped andosol in central Japan	
Y. Nakamura (Ibaraki, Japan) .....	177

**Short Communication**

- Effect of ridge planting and N-application methods on wheat grown in somewhat poorly drained soils  
 D.W. Sweeney (Parsons, KS, U.S.A.) and J.B. Sisson (Manhattan, KS, U.S.A.) ..... 187

**VOL. 12 NO. 3****OCTOBER 1988**

Long-term effects of tillage, cultivar and herbicide on weed shift and control in broadcast-seeded flooded rice	197
P.C. Bernasor and S.K. De Datta (Manila, Los Baños, Philippines) .....	197
Dry fertilizer placement in direct drilling	
M.A. Choudhary, C.J. Baker (Palmerston North, New Zealand) and W. Stiefel (Bulls, New Zealand) .....	213
Effect of N rate and tillage on yield, N accumulation and leaf N concentration of grain sorghum	
M.A. Locke and F.M. Hons (College Station, TX, U.S.A.).....	223
Use of a surface gamma-neutron gauge for in situ measurement of changes in bulk density of the tilled zone	
S.S. Rousseva, L.R. Ahuja and G.C. Heathman (Durant, OK, U.S.A.) .....	235
Intrinsic soil physical parameters influencing intensity of cultivation procedures for sugar beet seedbed preparation	
F.J. Larney, R.A. Fortune (Carlow, Ireland) and J.F. Collins (Dublin, Ireland) .....	253
Effect of conservation tillage systems on corn root growth	
R.E. Hilfiker and B. Lowery (Madison, WI, U.S.A.) .....	269
Spatial and temporal variability of some soil physical properties following tillage of a Nigerian paleustult	
O.E. Onofiock (Nsukka, Nigeria) .....	285
<b>Announcement</b> .....	299

**VOL. 12 NO. 4****DECEMBER 1988**

<b>Publisher's Note</b> .....	i
Micromorphological and selected physical properties of a moldboard-plowed soil with and without residue cover	
K. McSweeney, A.A. Heshaam, G. LeMasters (Madison, WI, U.S.A.) and L.D. Norton (Lafayette, IN, U.S.A.) .....	301
Summation of shear deformation in stream tubes in soil under a moving tyre	
F.G.J. Tijink, P. Lerink and A.J. Koolen (Wageningen, The Netherlands) .....	323
Ground cover during fallow from wheat, sorghum and sunflower stubble under three tillage practices in Central Queensland	
M.M. Sallaway (Bundaberg, Qld., Australia), D. Lawson (Emerald, Qld., Australia) and D.F. Yule (Rockhampton, Qld., Australia) .....	347
Direct drilling and soil loosening for spring cereals on a fine sandy loam in Atlantic Canada	
M.R. Carter, H.W. Johnston and J. Kimpinski (Charlottetown, P.E.I., Canada) .....	365
<b>Announcements</b> .....	385
<b>Author Index</b> .....	387

